

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of the claims in the application:

**Listing of Claims:**

1. (currently amended) A method, comprising:

selecting an information object repository to receive a request for an information object at an anycast network address according to specified performance metrics, ~~wherein the request comprises a single IP packet that includes the network layer anycast address;~~

receiving a request to resolve the anycast network address at the information object repository, wherein the request to resolve comprises a single IP packet having the anycast network address for the information object at the anycast network address;

resolving the request to a corresponding unicast network address for the information object; and

instructing the information object repository to obtain a copy of the information object at the corresponding unicast network address; and

returning an anycast resolution response in response to the request to resolve, the anycast resolution response comprising a single IP packet having the corresponding unicast network address.

2. (currently amended) The method of claim 1 further comprising returning the unicast network address for the information object.

- 3-5. (Canceled)

6. (Previously Presented) The method of claim 1 wherein the performance metrics comprise one or more of: reliability of a path from the selected information object repository, available bandwidth in said path, average delay from the selected information

object repository to a source of the request, average processing delay at the selected information object repository, and loads on the selected information object repository.

7. (currently amended) An information object repository configured to resolve a network layer anycast address to a network layer unicast address in response to a request for an information object at the network layer anycast address, ~~and to obtain a copy of the information object at the network layer unicast address,~~ and to return an anycast resolution response in response to a request to resolve the network layer anycast address, wherein the information object repository is selected according to specified performance metrics, wherein the request to resolve comprises a single IP packet that includes the network layer anycast address, wherein the anycast resolution response comprises a single IP packet that includes the network layer unicast address.

8. (Original) The information object repository of claim 7 being further configured to resolve the network layer anycast address by transmitting a request for the network layer unicast address and awaiting a response thereto.

9. (Original) The information object repository of claim 8 being further configured to return a failure message to a source of the request for the information object if the response to the request for the network layer unicast address is not received within a timeout period.

10. (currently amended) A network, comprising:

at least one client configured to transmit a request for an information object using a network layer anycast address and a request to resolve the network layer anycast address; and

an information object repository configured to receive the request for the information object and the request to resolve the network layer anycast address, to resolve the network layer anycast address into a network layer unicast address, ~~and to obtain a copy of the information object at the network layer unicast address,~~ and to return an anycast resolution response in response to a request to resolve the network

layer anycast address, wherein the information object repository is selected according to specified performance metrics, wherein the request to resolve comprises a single IP packet that includes the network layer anycast address, wherein the anycast resolution response comprises a single IP packet that includes the network layer unicast address.

11. (Original) The network of claim 10 wherein the information object repository is further configured to resolve the network layer anycast address by transmitting a request for the network layer unicast address and awaiting a response thereto.
12. (Original) The network of claim 11 wherein the information object repository is further configured to return a failure message to the client if the response to the request for the network layer unicast address is not received within a timeout period.
13. (Cancelled)
14. (cancelled)
15. (Original) The network of claim 14 wherein the response to the request for the network layer unicast address is returned by a host having the network layer unicast address.
16. (Previously Presented) The method of claim 1 wherein the request is received at an information object repository selected without regard as to whether the information object is actually stored at the information object repository.
17. (Previously Presented) The network of claim 14 wherein the single IP packet comprising the request for the network layer unicast address and the single IP packet comprising the response to the request for the network layer unicast address further comprise an IP header and a UDP header.